EXPEDITIONARY FIGHTING VEHICLE (EFV)

Colonel Mike Brogan, USMC
Direct Reporting Program Manager, Advanced Amphibious Assault

EFV MISSION

Provide High Speed Transport of Embarked Marine Infantry From Ships Located Beyond the Horizon to Inland Objectives

Provide Armor Protected Land Mobility and Direct Fire Support During Combat Operations

EFV

"Revolutionizing Expeditionary Maneuver Warfare"

Present: AAV

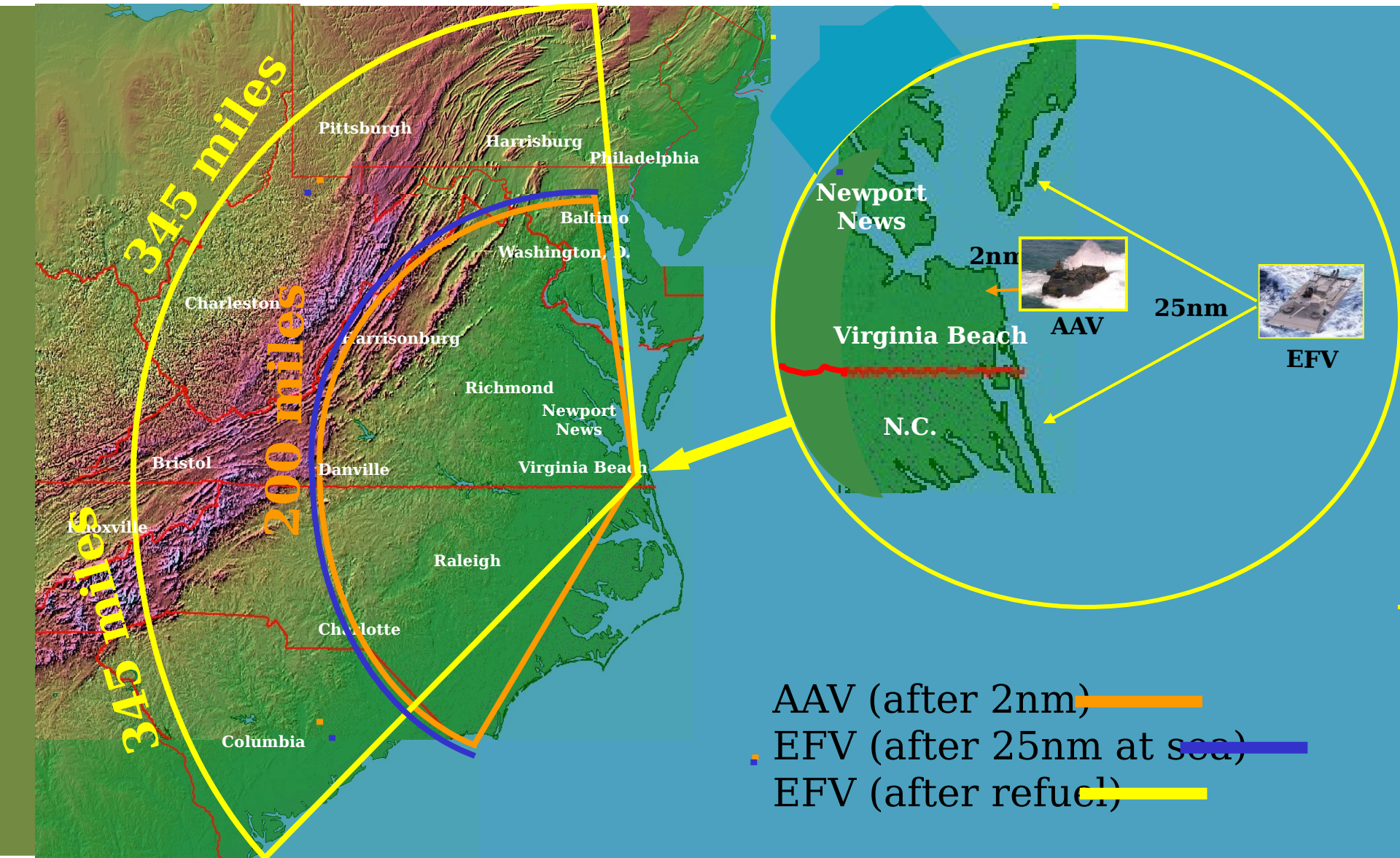
- WWII Doctrine
- No Standoff Distance for ATF
- Slow Speed Amphibious Assault
- 1960's Technology
- Limited Survivability

Future: EFV

- EFV directly supports the Marine Corps' Capstone Concept: Expeditionary Maneuver Warfare
- The EFV will provide the tactical mobility asset required to spearhead the EMW concept and permit the Marine Corps to fully exploit littoral areas as maneuver space
- The EFV will allow immediate, high speed maneuver of Marine infantry units as they emerge from ships located beyond the horizon (25 nm and beyond)
- The EFV's unique combination of offensive firepower, armor, NBC protection, and high speed mobility on land and sea represent major breakthroughs in the ability of Naval and Marine expeditionary forces to avoid and enemy's strength and exploit its weakness

Leap Ahead to 21st Century Technology

MOVE - OPERATIONAL REACH



EXPEDITIONARY FIGHTING VEHICLE

Move (Land)

Move (Water)

Shoo

Communica te

Carry

Protect

KEY PERFORMANCE PARAMETERS

CRITERIA	THRESHOLD	OBJECTIVE
• **High Water Speed -** Sea State 3, 3' significant wave height, for not less than one continuous hour	**20 knots**	**25 knots**
• **Land Speed -** Forward speed on hard surface road	**69 kph**	**72 kph**
• **Firepower -** Maximum effective range. Interoperability/standard ammunition	**1500m**	**2000m**
• **Armor Protection -** Any azimuth with other service(s)		
• **Reliability -** Mean Time Between Operational Mission Failure	**43.5 hrs**	**56 hrs**
• **Carrying Capacity**	**17 Marines**	**18 Marines**
• **Interoperability**	**100% of Critical *IERs**	**100% of Top Level *IERs**

* Information Exchange Requirements (IERs)

EFV DEVELOPMENT

FY95 - FY01
Program Development & Risk Reduction (PDRR)

1st Generation Prototypes

Integrated Functionality, Full Up System

FY01 - FY06
System Development & Demonstration (SDD)

2nd Generation Prototypes

Mature the Design, Prepare for Production

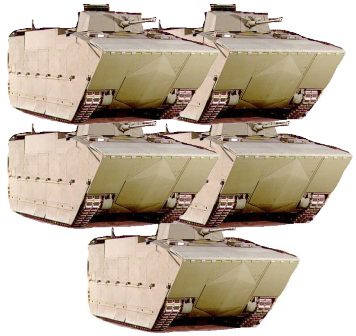
FY07 – FY10
Production Readiness & Low Rate Initial Production (LRIP)

Low Rate Initial Production Vehicles

Full-Up System Live Fire, Initial Operational Test & Evaluation

FY11 – FY20
Full Rate Production

Full Rate Production Vehicles



EFV

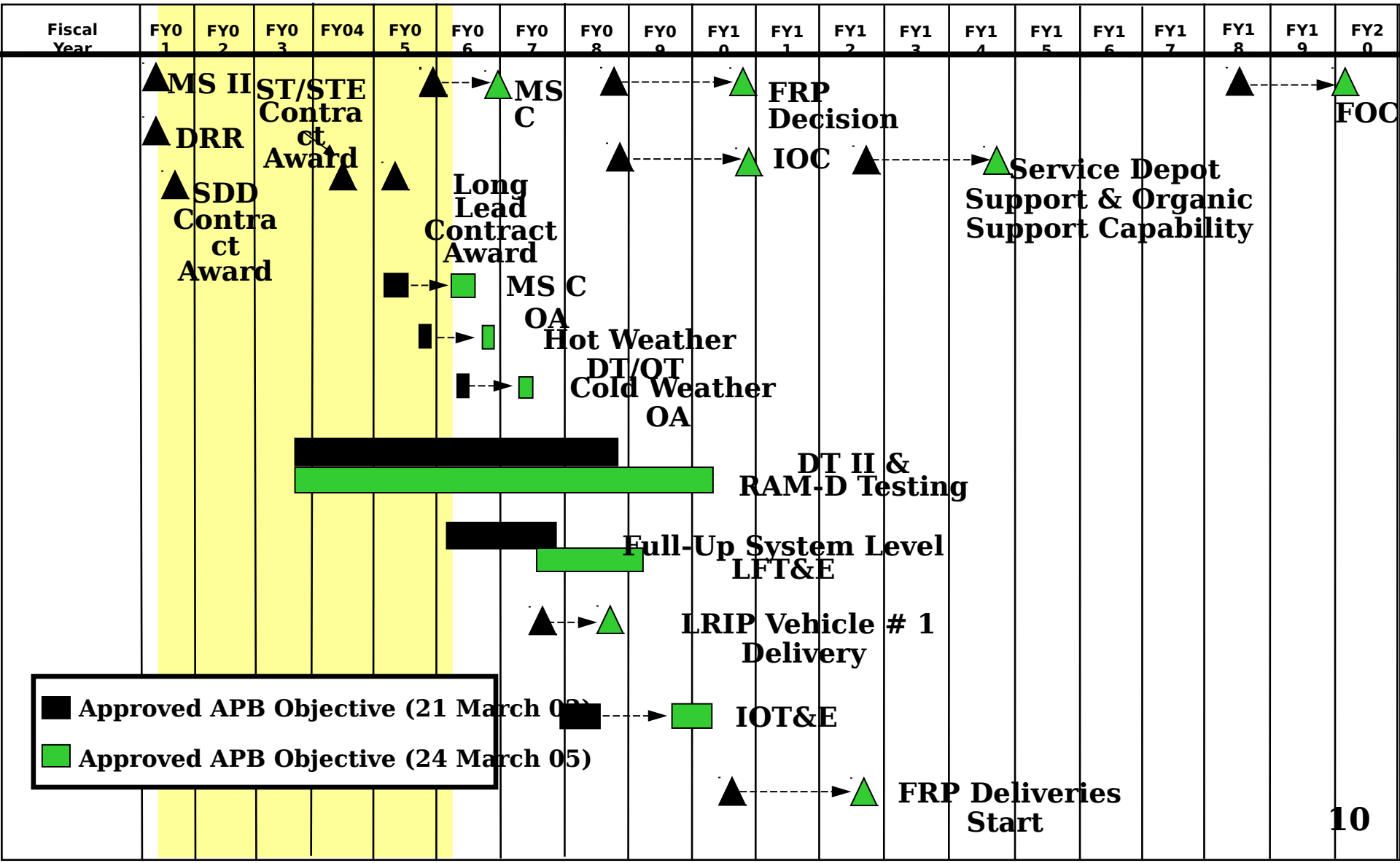
Design Cycles

1st Gen Prototypes **2nd Gen Prototypes** **LRIP** **FRP**

PB 06 IMPACTS

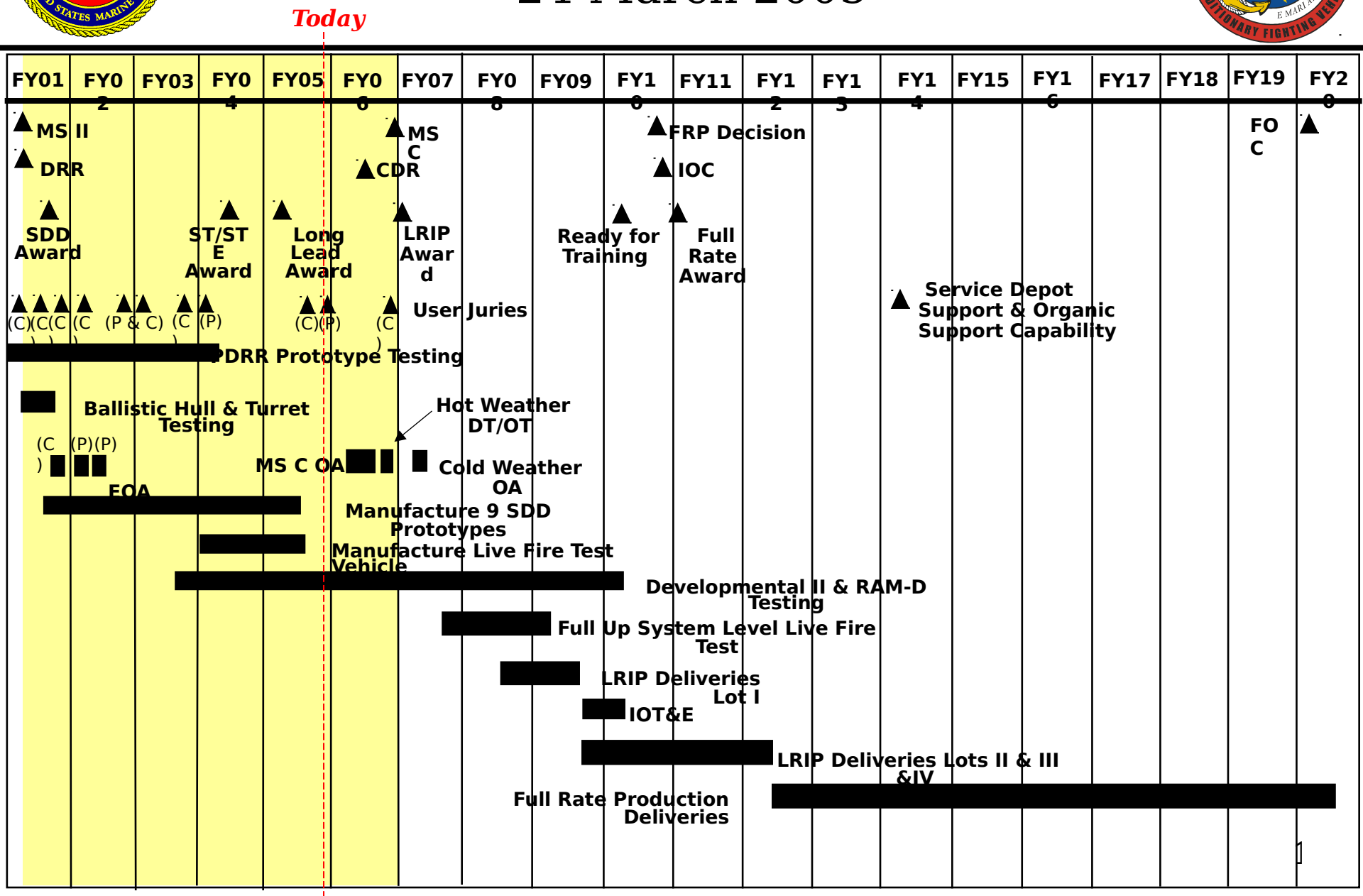
- **Reduced FYDP budget by $1.5B**
- **Reduced quantity of funded vehicles in the FYDP from 461 to 208**
- **Delayed Milestone C decision (Dec 05 to Sep 06) and shifted LRIP award from FY06 to FY07**
- **Delayed Initial Operational Capability from Sep08 to Sep10**
- **Flattened the procurement profile beginning in LRIP and through production with a maximum annual production quantity of 120 vice 170**
- **Delayed Full Operational Capability from FY17 to FY20**
- **Delayed Full Rate Production award from FY08 to FY10**
- **Increased vehicle unit cost**
- **Increased total program cost**

EFV PROGRAM SCHEDULE



EFV PROGRAM SCHEDULE

24 March 2005



EFV AT SEA OPERATIONS

- **20-21 Apr 05**
- **Multi-Vehicle Ship Operations (E3, E4 & C1)**
- **Validated the program concept of over-the-horizon data communications by successfully conducting data communicatio**

“www.efv.usmc.mil”

EFV TRANSITION